

Tianjia Sun
Xiang Xie
Zhihua Wang

Wireless Power Transfer for Medical Microsystems

Wireless Power Transfer For Medical Microsystems

Bibin John

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red circular gradient shape partially visible behind it.

Wireless Power Transfer For Medical Microsystems:

Wireless Power Transfer for Medical Microsystems Tianjia Sun,Xiang Xie,Zhihua Wang,2013-06-12 This book provides an in depth introduction to the newest technologies for designing wireless power transfer systems for medical applications The authors present a systematic classification of the various types of wireless power transfer with a focus on inductive power coupling Readers will learn to overcome many challenges faced in the design a wirelessly powered implant such as power transfer efficiency power stability and the size of power antennas and circuits This book focuses exclusively on medical applications of the technology and a batteryless capsule endoscopy system and other real wirelessly powered systems are used as examples of the techniques described **Wireless Power Transfer** Wenxing Zhong,Dehong Xu,Ron Shu Yuen Hui,2020-01-14 Focusing on inductive wireless power transfer WPT which relies on coil resonators and power converters this book begins by providing the background and basic theories of WPT which are essential for newcomers to the field Then two major challenges of WPT power transfer distance and efficiency are subsequently addressed and multi resonator WPT systems which not only offer a way to extend power transfer distance but also provide more flexibility are investigated Recent findings on techniques to maximize the power transfer efficiency of WPT systems e g maximum efficiency point tracking are also introduced Without the constraint of cables wireless power transfer WPT is an elegant technique for charging or powering a range of electrical devices e g electric vehicles mobile phones artificial hearts etc Given its depth of coverage the book can serve as a technical guideline or reference guide for engineers and researchers working on WPT

CMOS IC Design for Wireless Medical and Health Care Zhihua Wang,Hanjun Jiang,Hong Chen,2013-11-20 This book provides readers with detailed explanation of the design principles of CMOS integrated circuits for wireless medical and health care from the perspective of two successfully commercialized applications Design techniques for both the circuit block level and the system level are discussed based on real design examples CMOS IC design techniques for the entire signal chain of wireless medical and health care systems are covered including biomedical signal acquisition wireless transceivers power management and SoC integration with emphasis on ultra low power IC design techniques [Inductive Links for Wireless Power Transfer](#) Pablo Pérez-Nicoli,Fernando Silveira,Maysam Ghovanloo,2021-07-10 This book presents a system level analysis of inductive wireless power transfer WPT links The basic requirements design parameters and utility of key building blocks used in inductive WPT links are presented followed by detailed theoretical analysis design and optimization procedure while considering practical aspects for various application domains Readers are provided with fundamental yet easy to follow guidelines to help them design high efficiency inductive links based on a set of application specific target specifications The authors discuss a wide variety of recently proposed approaches to achieve the maximum efficiency point such as the use of additional resonant coils matching networks modulation of the load quality factor Q modulation and adjustable DC DC converters Additionally the attainability of the maximum efficiency point together with

output voltage regulation is addressed in a closed loop power control mechanism Numerous examples including MATLAB Octave calculation scripts and LTspice simulation files are presented throughout the book This enables readers to check their own results and test variations facilitating a thorough understanding of the concepts discussed The book concludes with real examples demonstrating the practical application of topics discussed Covers both introductory and advanced levels of theory and practice providing readers with required knowledge and tools to carry on from simple to advanced wireless power transfer concepts and system designs Provides theoretical foundation throughout the book to address different design aspects Presents numerous examples throughout the book to complement the analysis and designs Includes supplementary material numerical and circuit simulation files that provide a hands on experience for the reader Uses real examples to demonstrate the practical application of topics discussed

Smart Maintenance for Human-Robot Interaction Bo

Xing,Tshilidzi Marwala,2017-09-08 This self contained book written by active researchers presents up to date information on smart maintenance strategies for human robot interaction HRI and the associated applications of novel search algorithms in a single volume eliminating the need to consult scattered resources Unlike other books it addresses maintaining a smart HRI from three dimensions namely hardware cyberware and hybrid asset management covering problems encountered in each through a wide variety of representative examples and elaborated illustrations Further the diverse mathematical models and intelligent systems constructions make the book highly practical It enables readers interested in maintenance robotics and intelligent systems but perplexed by myriads of interrelated issues to grasp basic methodologies At the same time the referenced literature can be used as a roadmap for conducting deeper researches

Materials and Technologies for Future Advancement Azman Ismail,Fatin Nur Zulkipli,Syajaratunnur Yaakup,Andreas Öchsner,2023-10-07 This book is a platform to publish new progress in the field of materials and technologies that can offer significant developments with the possibility of changing the future These emerging developments will change the way we live now at an unprecedented pace across our society It is important to note that such modern developments are no longer restricted to a single discipline but are the outcome of a multidisciplinary approach which combines many different engineering disciplines This book explores the new technology landscape that will have the direct impact on production related sectors individually and in combination with different disciplines A major driver for this actual research is the efficiency many times connected with a focus on environmental sustainability

Advanced Systems for Biomedical Applications Olfa Kanoun,Nabil Derbel,2021-07-19 The book highlights recent developments in the field of biomedical systems covering a wide range of technological aspects methods systems and instrumentation techniques for diagnosis monitoring treatment and assistance Biomedical systems are becoming increasingly important in medicine and in special areas of application such as supporting people with disabilities and under pandemic conditions They provide a solid basis for supporting people and improving their health care As such the book offers a key reference guide about novel medical systems for students engineers designers and technicians

International Conference for Innovation in Biomedical Engineering and Life Sciences Fatimah Ibrahim, Juliana Usman, Mas Sahidayana Mohktar, Mohd Yazed Ahmad, 2015-11-26 This volume presents the proceedings of ICIBEL 2015 organized by the Centre for Innovation in Medical Engineering CIME under Innovative Technology Research Cluster University of Malaya. It was held in Kuala Lumpur, Malaysia, from 6-8 December 2015. The ICIBEL 2015 conference promotes the latest researches and developments related to the integration of the Engineering technology in medical fields and life sciences. This includes the latest innovations, research trends and concerns, challenges and adopted solutions in the field of medical engineering and life sciences.

Smart system for invasive measurement of biomedical parameters Bibin John, 2017 Permanent monitoring of blood pressure helps in diagnosis and tracking progress of medical interventions. This dissertation details the design, fabrication and implementation of tiny wirelessly powered implant devices for detection of endoleaks and occlusion occurring in stent grafts used for treatment of Abdominal Aortic Aneurysm (AAA) and portal hypertension due to liver cirrhosis. Custom fabricated low power application specific integrated circuit (ASIC) together with pressure sensors and telemetry units for wireless power reception and data transmission form an implant device. Using wireless inductive telemetry links, these devices achieved a wireless range of 20 cm.

Wireless Power Transfer Johnson I. Agbinya, 2022-09-01 Wireless Power Transfer is the second edition of a well received first book which was published in 2012. It represents the state of the art at the time of writing and addresses a unique subject of great international interest in terms of research. Most of the chapters are contributed by the main author though as in the first edition several chapters are contributed by other authors. The authors of the various chapters are experts in their own right on the specific topics within wireless energy transfer. Compared to the first edition, this new edition is more comprehensive in terms of the concepts discussed and the range of current industrial applications which are presented such as those of magnetic induction. From the eleven chapters of the first edition, this second edition has expanded to twenty chapters. More chapters on the theoretical foundations and applications have been included. This new edition also contains chapters which deal with techniques for reducing power losses in wireless power transfer systems. In this regard, specific chapters discuss impedance matching methods, frequency splitting and how to deploy systems based on frequency splitting. A new chapter on multi-dimensional wireless power transfer has also been added. The design of wireless power transfer systems based on bandpass filtering approach has been included in addition to the two techniques using coupled mode theory and electronic circuits. The book has retained chapters on how to increase efficiency of power conversion and induction and also how to control the power systems. Furthermore, detailed techniques for power relay including applications which were also discussed in the first edition have been updated and kept. The book is written in a progressive manner with a knowledge of the first chapters making it easier to understand the later chapters. Most of the underlying theories covered in the book are clearly relevant to inductive near field communications, robotic control, robotic propulsion techniques, induction heating and cooking and a range of mechatronic

systems

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